Name _____

Keystone Warm-ups
Ecology Unit

Copy down all 4 answer choices for the daily warm-up from the board in the space below its question. Choose the best answer by circling its letter. Then, after we go over it, write the correct answer in the block provided on the front of the packet.

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18		

1. A serious threat to biodiversity is

(A)

(B)

(C)

(D)

2. A student recorded the following observations in a field notebook:

- Two grey wolves
- Five moose
- Several species of conifer trees
- Large granite rock
- Shallow pond

Which term best classifies all of the student's observations?

(A) (B)

(C) (D)

3. A researcher observing an ecosystem describes the amount of sunlight, precipitation, and type of soil present. Which factors is the researcher most likely describing?

(A)

(B)

(C)

(D)

4. Which factor has the greatest influence on the type of ecosystem that will form in a particular geographic area?

(A)

(B)

(C)

(D)

5. Which organism carries out autotrophic nutrition?

(A) (B)

(C) (D)

6. Why is a mushroom considered a heterotroph?

(A)

(B)

(C)

(D)

7. A food chain is represented below.

Grass → Cricket → Frog → Owl

This food chain contains

(A)

(B)

(C)

(D)

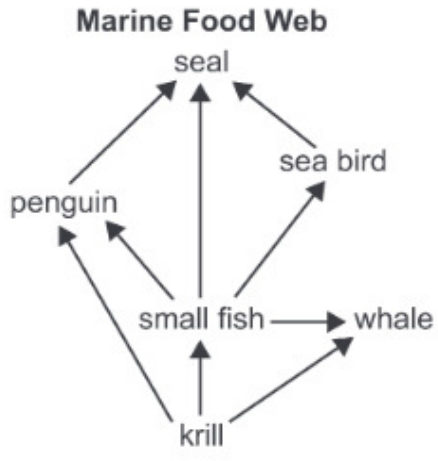
8. Which sequence correctly describes the flow of energy between organisms in the marine food web shown in the following diagram?

(A)

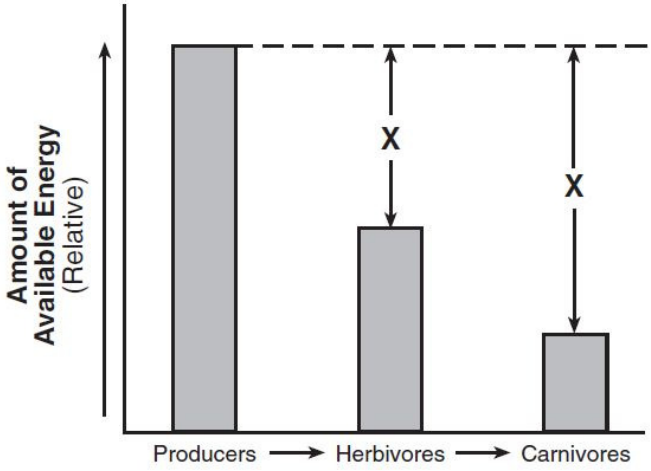
(B)

(C)

(D)



9. The graph below represents the amount of available energy at successive nutrition levels in a particular food web.



The Xs in the diagram represent the amount of energy that was most likely

(A)

(B)

(C)

(D)

10. Which statement correctly describes how nitrogen in the soil returns to the atmosphere?

(A)

(B)

(C)

(D)

11. Agricultural runoff can carry fertilizers into lakes and streams. This runoff can cause algae populations to greatly increase. Which effect does this change in the algae population sizes most likely have on affected lakes and streams?

(A)

(B)

(C)

(D)

12. Information concerning nests built in the same tree by two different bird species over a ten-year period is shown in the table below.

Distance of Nest Above Ground (m)	**Total Number of Nests Built by Two Different Species**	
	A	**B**
less than 1	5	0
1–5	10	0
6–10	5	0
over 10	0	20

What inference best describes these two bird species?

(A)

(B)

(C)

(D)

13. A species of snapping turtles has a tongue that resembles a worm. The tongue is used to attract small fish. Which best describes the interaction between the fish and the snapping turtle?

(A) (B)

(C) (D)

14. A volcanic eruption destroyed a forest, covering the soil with volcanic ash. For many years, only small plants could grow. Slowly, soil formed in which shrubs and trees could grow. These changes are an example of

(A) (B)

(C) (D)

15. A manatee is a water-dwelling herbivore on the list of endangered species. If manatees were to become extinct, what would be the most likely result in the areas where they had lived?

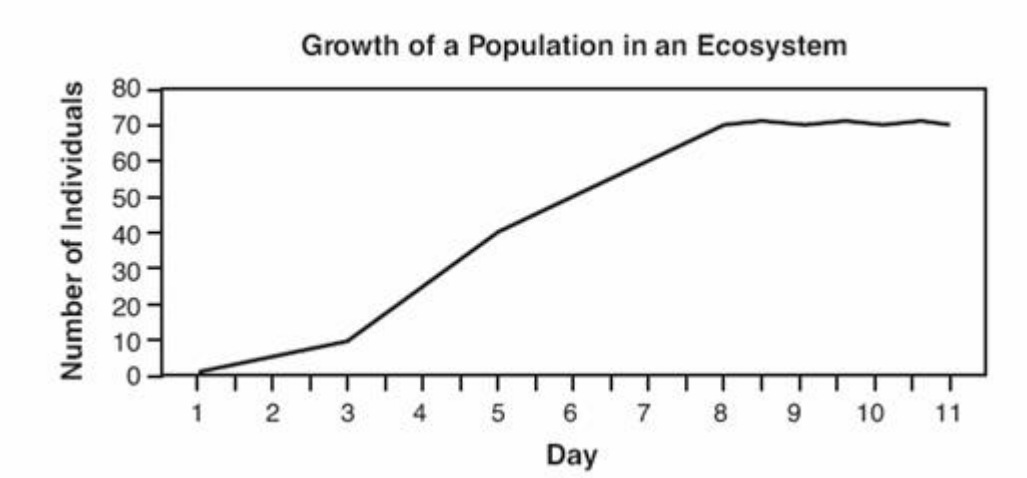
(A)

(B)

(C)

(D)

16. On which day did the population represented in the graph below reach the carrying capacity of the ecosystem?



(A) (B)

(C) (D)

17. A limiting factor unique to a field planted with corn year after year is most likely

(A) (B)

(C) (D)

18. Scientists observed that when two closely related species of predatory birds live in different areas, they seek prey early in the morning. However, when their territories overlap, one species hunts at night and the other hunts in the morning. When these two species live in the same area, they apparently modify their

(A) (B)

(C) (D)